#### ACID RAIN PROGRAM PERMIT

Ameren Energy Generating Co./Ameren Services Attn: Mr. Daniel F. Cole, Designated Representative 1901 Chouteau Avenue P.O. Box 66149, MC 07 St. Louis, Missouri 63166-6149

<u>Oris No.</u>: 861

<u>IEPA I.D. No.:</u> 135803AAA

Source/Unit: Coffeen Power Station/ Units 1 and 2

<u>Date Received</u>: July 2, 2004 Date Issued: March 21, 2005

Effective Date: January 1, 2005 Expiration Date: December 31, 2009

#### **STATEMENT OF BASIS:**

In accordance with Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program Permit to Ameren Energy Generating Company for its Coffeen Power Station.

## SULFUR DIOXIDE (SO<sub>2</sub>) ALLOCATIONS AND NITROGEN OXIDES (NO<sub>x</sub>) LIMITS FOR EACH AFFECTED UNIT:

	SO <sub>2</sub> Allowances,	2005	2006	2007	2008	2009
	under Tables 2, 3,					
UNIT 1	or 4 of 40 CFR Part	5,085	5,085	5,085	5,085	5,085
	73*					
	NO <sub>x</sub> Limit	See Provisions for NO <sub>x</sub> Averaging Plan, Below				

<sup>\*</sup> Also includes return of repowering deduction of 2 allowances, which were returned by USEPA on October 30, 2000.

	SO <sub>2</sub> Allowances,	2005	2006	2007	2008	2009	
UNIT 2	under Tables 2, 3, or 4 of 40 CFR Part 73*	15,381	15,381	15,381	15,381	15,381	
	NO <sub>x</sub> Limit	See Provisions for NO <sub>x</sub> Averaging Plan, Below					

<sup>\*</sup> Also includes return of repowering deduction of 5 allowances, which were returned by USEPA on October 30, 2000.

#### NO<sub>X</sub> EMISSIONS AVERAGING PLAN

Pursuant to 40 CFR 76.11, the Illinois EPA approves a  $NO_x$  emissions averaging plan that includes the Coffeen Units 1 and 2, effective for calendar years 2005 through 2009 (attached). Under this plan, except as provided below, the NOx emissions of Coffeen Units 1 and 2 each shall not exceed the annual average alternative contemporaneous emission limitation of 0.86 lb/mmBtu.

Under this plan, the actual Btu-weighted annual average  $NO_x$  emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated during that calendar year in compliance with the applicable emission limitation under 40 CFR 76.5, 76.6, or 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then the units covered by the plan shall be deemed to be in compliance for that year with their alternative contemporaneous annual emission limitations and any annual heat input limits.

**PERMIT APPLICATION:** The permit application, including the NO<sub>x</sub> Compliance Plan and NO<sub>x</sub> Averaging Plan, is attached and incorporated as part of this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

COMMENTS, NOTES, AND JUSTIFICATIONS: This permit contains provisions related to SO<sub>2</sub> emissions and requires the owners and operators to hold SO<sub>2</sub> allowances under the federal Acid Rain program to account for SO<sub>2</sub> emissions from the affected units. An allowance is a limited authorization to emit up to one ton of SO<sub>2</sub> during or after a specified calendar year. The transfer of allowances to and from a unit account does not necessitate a revision to the unit SO<sub>2</sub> allocations denoted in this permit (See 40 CFR 72.84).

This permit contains provisions related to  $NO_x$  emissions requiring the affected units to comply with applicable emission limitations for  $NO_x$  under the Acid Rain program. Pursuant to 40 CFR 76.11, the Illinois EPA is approving a  $NO_x$  emission averaging plan that includes Coffeen Units 1 and 2 for calendars years 2005 though 2009. In addition to the described  $NO_X$  compliance plan, the affected units shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a  $NO_X$  compliance plan and requirements covering excess emissions.

This permit does not affect the source's responsibility to meet all other applicable local, state and federal requirements, including state requirements under 35 Ill. Adm. Code Part 217 Subpart W, which addresses NO<sub>x</sub> emissions from Coffeen Units 1 and 2.

If you have any questions regarding this permit, please contact Kunj Patel at 217-782-2113.

Donald E. Sutton, P.E. Manager, Permits Section Division of Air Pollution Control

cc: Cecilia Mijares, USEPA Region V Dean Hayden, IEPA Region 2



### **Acid Rain Permit Application**

For more information, see instructions This submission is:  New  1	rrised	
Coffeen Plant Name	State IL	ORIS Code 861

#### STEP 2

STEP 1

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, order the requested information in columns "e" and "d."

Identify the source by plant name, State, and ORIS code.

			đ
Unit ID#	Unit will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Code	New Units Monitor Certification Deadline
01	Yes		
02	Yes		
	Yee		
	Yes		
	Yes	j j	JE TIE
	Yes		
	Yes		
	Yes		
	Yes	8 = 8	2

Coffeen Plant Name (from Step

#### STEP 3

#### Read the requirements

Permit Requirements

- (1) The designated representative of each affected source and each affected unit at the source shall:
  - Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and (ii) Have an Acid Rain Permit.

#### Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides
- under the Acid Rain Program.

  (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

#### Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compilance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
     (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Plant Name (from Step 1) Coffeen

STEP 3,

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

#### **Excess Emissions Requirements**

 The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
 The owners and operators of an affected unit that has excess emissions in any

calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that

penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

#### Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting.

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping.

the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the

requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, Including those under 40 CFR part 72 subpart I and 40 CFR part 75.

#### Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or on exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain

Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Coffeen Plant Name (from Step 1)

#### Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II ropoworing extension plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (Including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative

of such source or unit, shall be a separate violation of the Act.

#### Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans,

(2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is cetablished.

#### STEP 4

#### Certification

Read the certification sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Daniel F. Cole	
Signature Concelt Ca	Date 2 50/14

# Phase II NO<sub>X</sub> Compliance Plan Footil of 2

		on is: 🔯 New	ions and refer to 48	CFR 76.9						
SIEP 1 Indicate plant name, State, and OBS code from NADB, if applicable	Plani Name	Coffeen			IL. State	861 ORIS Code				
STEP 2	Identify eac applicable bottom wall indicate the	h affected Group Indicate builting Hired, "T" for tan compilance opti	1 and Group 2 b rps. "GB" for cell agentially fired, " on selected for e	oller using the bo burner, "CY" for V" for vertically fi ech unit.	ller ID# from h cyclone, "DBV red, and WB"	from NADB, if "DBW" for dry "WB" for wet bottom.				
	1DW 01	02 02	Del	ine	ru	re				
	Type CY	Type CY	Type	Type	Type	Туре				
(a) Standard arround average orbitation limitation of 0.50 bettern the Theory of the bottom was-fired tostern										
(b) Standard armust average emission limitation of 0.45 IbinmBlu (for Phase I Largeritally 8.60 00000)										
plan under 40 CFR N.S. through 1271p7 (also indicate above	а <sub>П</sub>	О	U	Ш	П					
d) Standard annual average enemies immerson or u.es beneath (for Physe II dry bottom wat-free totales)										
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f) Standard annual average statusion limitation of 0.68 turnings per call burner todare)	П	п	П	0	0					
gi Standard annual average Intesion imitation of 0.88 Diverbis for systems believe)										
hi Standard annual average entation invitation of 0.80 himselfu (for vertically fred boilers)										
II Standard annual average omiosign Epitelian of 8.84 bipmettu (for wet bottom poliers)										
(I) NO. Averaging Plan (include NO. Averaging Rem)	[23]	130				0				
th Common which approper to 40 CFR 73.17(4)(1)(1)(4) (check the standard emission implation box shows for event stringent (emission applicable to the standard standard emission applicable to the standard emission applicable to the standard emission and standard emission are standard em	La .			D	Ц	Ш				
(I) Common stack pursuant to CFR 73.17(s)(2)(s)(8) with NO. Averaging Plan box and fictual NO. Averaging form)						П				

	Plani Name (ho	Coffee m Skp 1)	en .		NO, C	NO, Compliance - Page 2 Page [2] of [2]			
STEP 2, com'd.	D#	Type	Туре	IDe Type	Type	Туро			
imi EPA-approved common stack apperdoment method lak 2(fi)(C), (a)(2)(4)(6), or (b)(6)		п	П	П	П	п			
ini AEL (include Phase I AEL Democratisation Paned, Final AEL Pedian, or Alic Reserva- form as appropriate)									
io) Petition for AEL demonstration period or final AEL under review by U.S. EPA demonstration period drigority	or 🗆								
(p) Repowering extension plan approved or under review					0				

STEP 3 Read the standard

#### milerii Requiremente

General. This source is eatiged to the standard requirements in 40 GFR 12.8 (consistent with 40 GFR 78 B(c)(1)(0). These requirements are fisted in this source's Acid Rain Permit.

#### Special Provisions for Early Bection Units

#### Certification

I am authorized to make this submission on behalf of the owners and operators of the diffected source or affocied units to which the outerfector to make it worth, the presenting outerfector to make it would be not the first personally outerfect, and are termited with, the statements and information submitted in this obscurrent and all its attachments. Based on my inquiry of those individuals with primary responsibility for obstaining the information, i savity but the statements and information are to the best of my transladage and belief true, sourcets, and complete. I am aware that there are significant consider for scatniting felse abstracts and information or omitting required statements and information, including the possibility of fine or imprisonment.

Daniel F. Cole	
sporter Doniel 7. Ca	Dan 6/30/04



### Phase II NO<sub>x</sub> Averaging Plan

This submission is: X New Revised

Page Tot 3

#### STEP 1

Identify the units participating in this averaging plan by plant harne, steet, and boiler IDE from NADB. In column (s), fill in each unit's applicable amission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), sessign an alternative contemporaresows annual emissions limitation (ACFI.) In ibimmBtu to each unit, in column (c), assign an emission hart input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Part Name	Sura	10.0	Emission Limitation	(b)	(c) Annual Heatinguitum
Coffeen	11.	01	0.86	0.86	22,000,000
Coffeen	IL.	02	0.86	0.86	38,000,000
Hutsonville	IL	0.5	0.45	0.45	3,100,000
Huisonville	IL	06	0.45	0.45	3,200,000
Meredosia	IL	01	0.45	0.45	1,300,000
Meredosia	IL.	02	0.45	0.45	1,300,000
Meredosia	IL.	03	0.45	0.45	1,300,000
Meredosia	IL.	04	0.45	0.45	1,300,000
Meredosia	IL.	05	0.45	0.45	12,000,000

#### STEP 2

Use the formule to enter the Bru-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Bru-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 75.5.75.6. or 76.7. The former must be less than or equal to the latter.

Otu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

$$\frac{\sum_{i=1}^{n} (R_{ni} \times HI_{i})}{\sum_{i=1}^{n} HI_{i}}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 70.5, 70.6 or 76.7

0.607

$$\frac{\sum_{i=1}^{n} [R_{i,i} \times HI_{i}]}{\sum_{i=1}^{n} HI_{i}}$$

#### Where.

0.607

R Alternative contemporaneous annual emission limitation for unit i, in ibmmBtu, as specified in column (h) of Step 1: Applicable emission limitation for unit i, in lohmmBtu, as specified in column (a) of Step 1: Amuel free input for unit i, in numbtu, as specified in column (u) of Step 1: Amuel free input for unit i, in numbtu, as specified in column (u) of Step 1: Number of units in the averaging plan.

R,

11.

Plant Name (from Step 1) Coffeen

NO, Averaging - Page 3

(4)

SIEPT

Continue the identification of units from Step 1, page 1, here.

Plani Namo	Chris	IDV	Emission Limitation	Alt Contemp. Emission Limitation	AnnualHeatInputLim
Newton	IL.	1	0.45	0.45	36,000,000
Newton	IL.	2	0.45	0.45	37,000,000
		1			
		-			
		+			
RETURN.					
	-	-			
	-	-			
		-			

Plant Name (from Step 1) Coffeen NO, Averaging - Page 2 through calendar year 2009 X This plan is effective for calendar year 2005 STEP 3 unless notification to terminate the plan is given. Mark one of the two options and enter dates. □ Treat this plan as □ identical plans, each effective for one calendar year for the following. and \_\_\_\_\_ unless notification to terminate one or more of these plans is given. STEP 4 Special Provisions Read the special provisions and contification, enter the name of the designated **Emission Limitations** Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO, under the plan only if the following requirements are met: representative, and (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lahmmBlu, is less than or equal to its alternative contemporaneous annual emission limitation in the everaging plan, and (a) For each unit with an elementy expression contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CHV / b.b, 76.8, or 16.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan.
(b) For each unit with an alternative continuous emission limitation more stringent then the applicable amission limitation in 40 CFR 76.5, 76.5, or 76.7, the actual annual heat input for the calendar year is not less than amission limitation in 90 CFR 78.5, 78.6, or 78.7, the actual annual heat input for the carendar year is not test that the annual heat input limit in the exceeping plan, or (ii) flore or more of the units does not meet the requirements of (ii). The designated representative shall demonstrate, in accordance with 40 CFR 78.11(f) (1)(k)(k)(k) and (8), that the actual 8b weekplood enrusal average emission rate for the units in the plan is less them or equal to the 8b weekplood enrusal average rate for the same units had they each been operated, during the same certed of time, incompliance with the acquicable emission limitations in 40 CFR 78.5, 78.6, or 78.7.

(iii) There is a successful group showing of compliance under 40 CFR 78.11(d)(1)(i)(A) and (B) for a calendar year, then at units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (ii). Liability The owners and operators of a unit povermed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act. Termination The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 48 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated. Certification I am authorized in make this submission on behalf of the owners and operators of the effected source or effected units for which the submission is made. I certify under penelty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for authority lesse statements and information or omting required statements and information, including the possibility of fine or imprisonment.

Date 6/30/04

Daniel F. Cole